

ABSTRACT

A manganese compound exerting a higher environmental pollutant removal performance than that of a conventional manganese oxide is provided. The manganese compound is obtained by mixing and reacting a bivalent manganese salt aqueous solution and a permanganate alkaline aqueous solution containing a quantity of an alkali larger than a stoichiometric quantity. When comparing the manganese compound with an already-known manganese oxide, it is determined that a specific surface area has significantly increased, and the environment pollutant removal performance is significantly improved.

The manganese compound according to the present invention has a high specific surface area value and a high environment pollutant removal performance, and is useful in the adsorption and oxidation-removal of the odor components discharged from factories, NO_x, SO_x, VOC, and the unburned components such as hydrocarbons, aldehydes and the like which are generated by incomplete combustion.